

AMENDMENTS TO THE SPECIFICATION

Please amend the ABSTRACT as follows:

A pressure wave apparatus utilizing ~~constant volume combustor device~~ includes the principles of pulsed detonation and wave rotor ~~detonative combustion technologies~~. In one form the wave rotor of the constant volume combustor is supported by magnetic bearings. The apparatus includes inlet and outlet ports that interface with a plurality of fluid flow passageways on a rotor. A buffer gas is routed through some of the inlet and outlet ports and into and out of the plurality of fluid flow passageways. One of the inlet ports is a buffer gas inlet port that when placed in registry with a fluid flow passageway allows the flow of buffer gas into the respective passageway. Fuel is delivered into the buffer gas proximate the buffer gas inlet port so that only a portion of the buffer gas inlet port receives any fuel.